

アインシュタイン

創造の10年



THE EINSTEIN DECADE
1905—1915

非凡な頭脳アインシュタイン

1905年の三大研究「ブラウン運動」「光電効果」「相対性原理」をはじめ、固体の比熱、量子の統計性、質量とエネルギーの関係、特殊および一般相対性理論、重力場の方程式など、これらの輝かしい業績は、彼の研究生活のはじめの10年間に集中している。

本書は、共同研究者であったランチョシュが、従来語られてきたカリスマ的人物としてのアインシュタインでなく、探究者・自然科学者としてのアインシュタインを描き出すことをめざしている。

The Einstein Decade 1905 1915

Walter C. Mih



The Einstein Decade 1905 1915:

The Einstein Decade (1905-1915) Cornelius Lanczos, 1974 **The Einstein Almanac** Alice Calaprice, 2005 The Einstein Almanac takes a look at Einstein's year by year output explaining his 300 most important publications and setting them into the context of his life science and world history **The Cambridge Companion to Einstein** Michel Janssen, Christoph Lehner, 2014-05-19 This volume is the first systematic presentation of the work of Albert Einstein comprising fourteen essays by leading historians and philosophers of science that introduce readers to his work Following an introduction that places Einstein's work in the context of his life and times the book opens with essays on the papers of Einstein's miracle year 1905 covering Brownian motion light quanta and special relativity as well as his contributions to early quantum theory and the opposition to his light quantum hypothesis Further essays relate Einstein's path to the general theory of relativity 1915 and the beginnings of two fields it spawned relativistic cosmology and gravitational waves Essays on Einstein's later years examine his unified field theory program and his critique of quantum mechanics The closing essays explore the relation between Einstein's work and twentieth century philosophy as well as his political writings Einstein in Bohemia Michael D. Gordin, 2022-02-22 Though Einstein is undoubtedly one of the most important figures in the history of modern science he was in many respects marginal Despite being one of the creators of quantum theory he remained skeptical of it and his major research program while in Princeton the quest for a unified field ultimately failed In this book Michael Gordin explores this paradox in Einstein's life by concentrating on a brief and often overlooked interlude his tenure as professor of physics in Prague from April of 1911 to the summer of 1912 Though often dismissed by biographers and scholars it was a crucial year for Einstein both personally and scientifically his marriage deteriorated he began thinking seriously about his Jewish identity for the first time he attempted a new explanation for gravitation which though it failed had a significant impact on his later work and he met numerous individuals including Max Brod Hugo Bergmann Philipp Frank and Arno t Kolman who would continue to influence him In a kind of double biography of the figure and the city this book links Prague and Einstein together Like the man the city exhibits the same paradox of being both central and marginal to the main contours of European history It was to become the capital of the Czech Republic but it was always compared to Vienna and Budapest less central in the Habsburg Empire Moreover it was home to a lively Germanophone intellectual and artistic scene thought the vast majority of its population spoke only Czech By emphasizing the marginality and the centrality of both Einstein and Prague Gordin sheds new light both on Einstein's life and career and on the intellectual and scientific life of the city in the early twentieth century

Proceedings of the Cornelius Lanczos International Centenary Conference J. David Brown, 1994-01-01 **Albert Einstein, Historical and Cultural Perspectives** Gerald Holton, Yehuda Elkana, 2014-07-14 Based on papers presented at the Jerusalem Einstein Centennial Symposium in March 1979 this volume sets forth an articulated sequence of chapters on the impact of Einstein's work not only in science but in humanistic studies and problems such as international security in the

nuclear age Originally published in 1982 The Princeton Legacy Library uses the latest print on demand technology to again make available previously out of print books from the distinguished backlist of Princeton University Press These editions preserve the original texts of these important books while presenting them in durable paperback and hardcover editions The goal of the Princeton Legacy Library is to vastly increase access to the rich scholarly heritage found in the thousands of books published by Princeton University Press since its founding in 1905 **Subtle is the Lord** Abraham Pais,2005-08-25

Subtle is the Lord is widely recognized as the definitive scientific biography of Albert Einstein The late Abraham Pais was a distinguished physicist turned historian who knew Einstein both professionally and personally in the last years of his life His biography combines a profound understanding of Einstein s work with personal recollections from their years of acquaintance illuminating the man through the development of his scientific thought Pais examines the formulation of Einstein s theories of relativity his work on Brownian motion and his response to quantum theory with authority and precision The profound transformation Einstein s ideas effected on the physics of the turn of the century is here laid out for the serious reader Pais also fills many gaps in what we know of Einstein s life his interest in philosophy his concern with Jewish destiny and his opinions of great figures from Newton to Freud This remarkable volume written by a physicist who mingled in Einstein s scientific circle forms a timeless and classic biography of the towering figure of twentieth century science **Newton to Einstein: The Trail of Light** Ralph Baierlein,1992 This undergraduate text takes the non science student from Newton s particles to Einstein s relativity **Handbook of Psychology, Personality and Social Psychology**

Irving B. Weiner,Howard A. Tennen,Jerry M. Suls,2012-10-16 Psychology is of interest to academics from many fields as well as to the thousands of academic and clinical psychologists and general public who can t help but be interested in learning more about why humans think and behave as they do This award winning twelve volume reference covers every aspect of the ever fascinating discipline of psychology and represents the most current knowledge in the field This ten year revision now covers discoveries based in neuroscience clinical psychology s new interest in evidence based practice and mindfulness and new findings in social developmental and forensic psychology **The Lazy Universe** Jennifer Coopersmith,2017 The

Principle of Least Action underlies all physics and leads into quantum mechanics and Einstein s Relativity There are some textbooks that do the calculations and one book with nice pictures but no book before this one that explains what action is and why nature follows this principle **Einstein** Thomas Ryckman,2017-05-18 Albert Einstein 1879 1955 was the most influential physicist of the 20th century Less well known is that fundamental philosophical problems such as concept formation the role of epistemology in developing and explaining the character of physical theories and the debate between positivism and realism played a central role in his thought as a whole Thomas Ryckman shows that already at the beginning of his career at a time when the twin pillars of classical physics Newtonian mechanics and Maxwell s electromagnetism were known to have but limited validity Einstein sought to advance physical theory by positing certain physical principles as

secure footholds That philosophy produced his greatest triumph the general theory of relativity and his greatest failure an unwillingness to accept quantum mechanics This book shows that Einstein's philosophy grew from a lifelong aspiration for a unified theoretical representation encompassing all physical phenomena It also considers how Einstein's theories of relativity and criticisms of quantum theory shaped the course of 20th century philosophy of science Including a chronology glossary chapter summaries and suggestions for further reading Einstein is an ideal introduction to this iconic figure in 20th century science and philosophy It is essential reading for students of philosophy of science and is also suitable for those working in related areas such as physics history of science or intellectual history

Gravitation A R Prasanna, 2016-12-12 This book suitable for post graduates in Physics and Astrophysics aims at introducing the theory of general relativity as an important background for doing astrophysics Starting from a detailed discussion of the various mathematical concepts for doing general relativity the book introduces the geometric description of gravity It gives a brief historical perspective to classical mechanics and electrodynamics making an attempt to establish the necessity of special relativity as propounded by Einstein extending to General Relativity This book is a good starting point for post graduates wanting to pursue the modern topics of Cosmology High energy astrophysics and related areas

The Intrinsic Nature of Things Barbara Gellai, 2010 This book recounts the extraordinary personal journey and scientific story of Hungarian born mathematician and physicist Cornelius Lanczos His life and his mathematical accomplishments are inextricably linked reflecting the social upheavals and historical events that shaped his odyssey in 20th century Hungary Germany the United States and Ireland In his life Lanczos demonstrated a remarkable ability to be at the right place or work with the right person at the right time At the start of his scientific career in Germany he worked as Einstein's assistant for one year and stayed in touch with him for years thereafter Reacting to anti-Semitism in Germany in the 1930s he moved to the United States where he would work on some of the earliest digital computers at the National Bureau of Standards After facing suspicion of Communist sympathies during the McCarthy era in the 1950s Lanczos would relocate once again joining Schrödinger at the Dublin Institute for Advanced Studies Gellai's biography analyzes a rich life and a body of work that reaches across many scientific disciplines Lanczos made important contributions to several areas of mathematics and mathematical physics His first major contribution was an exact solution of the Einstein field equations for gravity in general relativity He worked out the Fast Fourier Transform but since there were no machines on which to run it this accomplishment would be forgotten for 25 years Once he had access to computers Lanczos independently rediscovered what is now known as the singular value decomposition a fundamental tool in numerical methods Other significant contributions included an important discovery about the Weyl tensor which is now known as the Lanczos potential and an important contribution on algorithms for finding eigenvalues of large matrices

The Fascinating Life and Theory of Albert Einstein Walter C. Miah, 2000 Albert Einstein was a great scientist and a seasoned philosopher with keen insight into the world around us This book is a biography of Albert Einstein with a strong

emphasis on his philosophy and theories Einstein's Theory of Relativity is a masterpiece of science that greatly increases our understanding of the universe and profoundly influences our world The goal of this book is to help to understand Einstein's theory as well as his philosophy

The Roots of Special Relativity Peter Galison, Michael Gordin, David Kaiser, 2013-09-13

Modern science has changed every aspect of life in ways that cannot be compared to developments of previous eras This four volume set presents key developments within modern physical science and the effects of these discoveries on modern global life The first two volumes explore the history of the concept of relativity the cultural roots of science the concept of time and gravity before during and after Einstein's theory and the cultural reception of relativity Volume 3 explores the impact of modern science upon global politics and the creation of a new kind of war and Volume 4 details the old and new efforts surrounding the elucidation of the quantum world as well as the cultural impact of particle physics This reprint collection pools the best scholarship available collected from a large array of difficult to acquire books journals and pamphlets Each volume begins with an introductory essay written by one of the top scholars in the history of science Students and scholars of modern culture science and society will find these volumes a veritable research gold mine

Nature Mathematized W.R. Shea, 2012-12-06

These remarks preface two volumes consisting of the proceedings of the Third International Conference on the History and Philosophy of Science of the International Union of History and Philosophy of Science The conference was held under the auspices of the Union The Social Sciences and Humanities Research Council of Canada and the Canadian Society for History and Philosophy of Science The meetings took place in Montreal Canada 25-29 August 1980 with Concordia University as host institution The program of the conference was arranged by a Joint Commission of the International Union of History and Philosophy of Science consisting of Robert E Butts Canada John Murdoch U S A Vladimir Kirsanov U S S R and Paul Weingartner Austria The Local Arrangements Committee consisted of Stanley G French Chair Concordia Michel Paradis treasurer McGill Franyois Duchesneau Universite de Montreal Robert Nadeau Universite du Quebec a Montreal and William Shea McGill University Both committees are indebted to Dr G R Paterson then President of the Canadian Society for History and Philosophy of Science who shared his expertise in many ways Dr French and his staff worked diligently and efficiently on behalf of all participants The city of Montreal was as always the subtle mixture of extravagance charm warmth and excitement that retains her status as the jewel of Canadian cities The funding of major international conferences is always a problem

Modern Classical Physics Kip S. Thorne, Roger D. Blandford, 2017-09-05

A groundbreaking text and reference book on twenty first century classical physics and its applications This first year graduate level text and reference book covers the fundamental concepts and twenty first century applications of six major areas of classical physics that every masters or PhD level physicist should be exposed to but often isn't statistical physics optics waves of all sorts elastodynamics fluid mechanics plasma physics and special and general relativity and cosmology Growing out of a full year course that the eminent researchers Kip Thorne and Roger Blandford taught at Caltech for almost

three decades this book is designed to broaden the training of physicists Its six main topical sections are also designed so they can be used in separate courses and the book provides an invaluable reference for researchers Presents all the major fields of classical physics except three prerequisites classical mechanics electromagnetism and elementary thermodynamics Elucidates the interconnections between diverse fields and explains their shared concepts and tools Focuses on fundamental concepts and modern real world applications Takes applications from fundamental experimental and applied physics astrophysics and cosmology geophysics oceanography and meteorology biophysics and chemical physics engineering and optical science and technology and information science and technology Emphasizes the quantum roots of classical physics and how to use quantum techniques to elucidate classical concepts or simplify classical calculations Features hundreds of color figures some five hundred exercises extensive cross references and a detailed index An online illustration package is available

Relativity and Cosmology Kip S. Thorne, Roger D. Blandford, 2021-05-25 A groundbreaking textbook on twenty first century general relativity and cosmology Kip Thorne and Roger Blandford's monumental Modern Classical Physics is now available in five stand alone volumes that make ideal textbooks for individual graduate or advanced undergraduate courses on statistical physics optics elasticity and fluid dynamics plasma physics and relativity and cosmology Each volume teaches the fundamental concepts emphasizes modern real world applications and gives students a physical and intuitive understanding of the subject Relativity and Cosmology is an essential introduction to the subject including remarkable recent advances Written by award winning physicists who have made fundamental contributions to the field and taught it for decades the book differs from most others on the subject in important ways It highlights recent transformations in our understanding of black holes gravitational waves and the cosmos it emphasizes the physical interpretation of general relativity in terms of measurements made by observers it explains the physics of the Riemann tensor in terms of tidal forces differential frame dragging and associated field lines it presents an astrophysically oriented description of spinning black holes it gives a detailed analysis of an incoming gravitational wave's interaction with a detector such as LIGO and it provides a comprehensive in depth account of the universe's evolution from its earliest moments to the present While the book is designed to be used for a one quarter or full semester course it goes deep enough to provide a foundation for understanding and participating in some areas of cutting edge research Includes many exercise problems Features color figures suggestions for further reading extensive cross references and a detailed index Optional Track 2 sections make this an ideal book for a one quarter or one semester course An online illustration package is available to professors The five volumes which are available individually as paperbacks and ebooks are Statistical Physics Optics Elasticity and Fluid Dynamics Plasma Physics and Relativity and Cosmology

A New Perspective on Relativity Bernard H. Lavenda, 2012 Starting off from noneuclidean geometries apart from the method of Einstein's equations this book derives and describes the phenomena of gravitation and diffraction A historical account is presented exposing the missing link in Einstein's construction of the theory of general

relativity the uniformly rotating disc together with his failure to realize that the Beltrami metric of hyperbolic geometry with constant curvature describes exactly the uniform acceleration observed This book also explores these questions How does time bend Why should gravity propagate at the speed of light How does the expansion function of the universe relate to the absolute constant of the noneuclidean geometries Why was the Sagnac effect ignored Can Maxwell's equations accommodate mass Is there an inertia due solely to polarization Can objects expand in elliptic geometry like they contract in hyperbolic geometry

The History of Mathematics from Antiquity to the Present Joseph W. Dauben, 1985

Unveiling the Magic of Words: A Review of "**The Einstein Decade 1905 1915**"

In some sort of defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their ability to kindle emotions, provoke contemplation, and ignite transformative change is actually awe-inspiring. Enter the realm of "**The Einstein Decade 1905 1915**," a mesmerizing literary masterpiece penned by way of a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve to the book is central themes, examine its distinctive writing style, and assess its profound effect on the souls of its readers.

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